

Safety Data Sheet: FREE DRAIN

Supersedes Date 04/13/2017

Issuing Date 01/09/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name FREE DRAIN
Recommended use Use in drains
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code M066
Chemical nature Alkaline solid Mixture
Emergency Telephone
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Light yellow

Physical state Solid

Odor Citrus

GHS Classification

Physical Hazards

Corrosive to Metals

Category 1

Health Hazard

Acute Dermal Toxicity

Category 4

Skin Corrosion/Irritation

Category 1

Serious Eye Damage/Eye Irritation

Category 1

Other hazards

None

Labeling

Signal Word

DANGER



Hazard statements

H314 - Causes severe skin burns and eye damage

H312 - Harmful in contact with skin

H290 - May be corrosive to metals

Precautionary Statements

P280 - Wear protective gloves, protective clothing, eye protection and face protection.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P260 - Do not breathe dust

P302 - IF ON SKIN: Wipe away material with a cloth

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P363 - Wash contaminated clothing before reuse

P332 + P313 - If skin irritation occurs, get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a physician.

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311 - If experiencing respiratory symptoms, call a physician.

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.

P390 - Absorb spillage to prevent damage.

P406 - Store in a corrosion-resistant container.

P501 - Dispose of contents and container in accordance with applicable local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Sodium hydroxide	1310-73-2	60-80
Sodium bisulfate	7681-38-1	10-30
Sodium carbonate	497-19-8	1-5

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General advice	Do not get in eyes, on skin or on clothing. Do not breathe dust.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact	Remove immediately all contaminated clothing. Wipe up with absorbent material (e.g. cloth, fleece). Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation	Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to physician	The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point	Does not flash	Method	No data available
Flammability Limits in Air %:	Hydrogen, by reaction with metals.	Upper:	75
		Lower:	4
Suitable Extinguishing Media	Foam. Carbon dioxide (CO ₂). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Specific hazards arising from the chemical	Contact with metals may evolve flammable hydrogen gas.		
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.		
NFPA	Health 3	Flammability 0	Instability 1
HMIS -	Health 3	Flammability 0	Instability 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental precautions	Do not flush into surface water. Do not flush into storm sewer systems.
Methods for Containment	Cover powder spill with plastic sheet or tarp to minimize spreading.
Methods for Cleaning Up	Pick up and arrange disposal without creating dust.
Neutralizing Agent	Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling	Do not get in eyes, on skin or on clothing. Do not breathe dust.			
Storage	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Metal containers must be lined.			
Storage Temperature	Minimum	35 °F / 2 °C	Maximum	120 °F / 49 °C
Storage Conditions	Indoor	X	Outdoor	Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Sodium hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³	10 mg/m ³ Ceiling: 2 mg/m ³

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles. Face-shield.
Skin Protection	Wear suitable protective clothing, Impervious gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid	Viscosity	Powder
Color	Light yellow	Odor	Citrus
Odor Threshold	Not applicable	Appearance	Opaque
pH	(as 10% solution) 14	Specific Gravity	1.2
Evaporation Rate	0 (Butyl acetate=1)	Percent Volatile (Volume)	1.6
VOC Content (%)	0.6	VOC Content (g/L)	6
Vapor Pressure	No data available	Vapor Density	5.6 (Air = 1.0)
Solubility	Soluble	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	No data available	Flammability (solid, gas)	No data available
Flash Point	Does not flash	Method	No data available
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Hydrogen, by reaction with metals	Upper: 75 Lower: 4	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Protect from moisture, Extremes of temperature and direct sunlight, Avoid dust formation.
Incompatible Products	Metals, Strong acids, Strong oxidizing agents, Ketones, Acetone, Halogenated hydrocarbon, Reducing agents, Ammonia, Aluminum.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Sodium oxides, Carbon oxides, Sulfur oxides, Nitrogen oxides (NOx), Hydrogen, by reaction with metals, Metal oxides, Halogenated compounds.
Possibility of Hazardous Reactions	Potential for exothermic hazard.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available
Mist	No information available
Vapor	No information available

Principle Route of Exposure Skin contact, Eye contact, Inhalation.

Primary Routes of Entry Skin contact.

Acute Effects:

Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes skin burns.
Inhalation	Harmful by inhalation. Causes burns.
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Chronic Toxicity:

Inhaled corrosive substances can lead to a toxic edema of the lungs.

Target Organ Effects:

Skin, Eyes, Respiratory system.

Aggravated Medical Conditions

Skin disorders, Respiratory disorders.

Component Information

Acute Toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Sodium hydroxide 1310-73-2	No data available	= 1350 mg/kg (Rabbit)	No data available	No data available	No data available
Sodium bisulfate 7681-38-1	= 2490 mg/kg (Rat)	no data available	No data available	No data available	No data available
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	no data available	= 2300 mg/m ³ (Rat) 2 h	No data available	No data available

Chronic Toxicity

Chemical Name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium hydroxide 1310-73-2	No data available	No data available	No data available	No data available	Skin; Eyes; Respiratory system

Carcinogenicity

There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
Sodium hydroxide	No information available.	LC50 = 45.4 mg/L Oncorhynchus mykiss 96 h	No information available	No information available.	N/A
Sodium bisulfate	No information available.	No information available.	No information available	190: 48 h Daphnia magna mg/L EC50	N/A
Sodium carbonate	No information available.	LC50 = 300 mg/L Lepomis macrochirus 96 h LC50 310 - 1220 mg/L Pimephales promelas 96 h	No information available	265: 48 h Daphnia magna mg/L EC50	N/A

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of in accordance with local regulations.

Container Disposal

Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name SODIUM HYDROXIDE, SOLID, MIXTURE
Hazard Class 8
UN-No UN1823
Packing Group II
Reportable Quantity (RQ) Sodium hydroxide, RQ kg= 588.85
Description UN1823, SODIUM HYDROXIDE, SOLID, MIXTURE, 8, PG II

TDG

Proper shipping name SODIUM HYDROXIDE, SOLID, MIXTURE
Hazard Class 8
UN-No UN1823
Packing Group II
Description UN1823, SODIUM HYDROXIDE, SOLID, MIXTURE, 8, PG II

ICAO

UN-No UN1823
Proper Shipping Name SODIUM HYDROXIDE, SOLID, MIXTURE
Hazard Class 8
Packing Group II
Shipping Description UN1823, SODIUM HYDROXIDE, SOLID, MIXTURE, 8, PG II

IATA

UN-No UN1823
Proper Shipping Name SODIUM HYDROXIDE, SOLID, MIXTURE
Hazard Class 8
Packing Group II
ERG-Code 8L
Shipping Description UN1823, SODIUM HYDROXIDE, SOLID, MIXTURE, 8, PG II

IMDG/IMO

UN proper shipping name SODIUM HYDROXIDE, SOLID, MIXTURE
Hazard Class 8
UN Number UN1823
Packing Group II
EmS No. F-A, S-B
Description UN1823, SSODIUM HYDROXIDE, SOLID, MIXTURE, 8, PG II

15. REGULATORY INFORMATION

Inventories

TSCA

Complies

DSL

Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

See Section 2

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	Not applicable

16. OTHER INFORMATION

Prepared By	Adrienne McKee
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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